



THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

Job Number: 180-2644-1

Job Description: Focused Site Assessment

For:

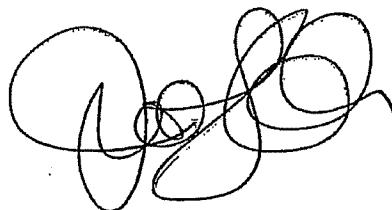
URS Corporation

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Approved for release.  
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09/13/2011

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## CASE NARRATIVE

Client: URS Corporation

Project: Focused Site Assessment

Report Number: 180-2644-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### RECEIPT

The samples were received on 08/05/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.0 and 0.7 C.

The laboratory received a broken 1L amber bottle for sample TC-1 (180-2644-1).

The laboratory only received six VOA vials for sample AW-2 (180-2644-2) instead of nine.

### LOW LEVEL VOLATILE ORGANIC COMPOUNDS

Methylene Chloride and Toluene were detected in method blank MB 180-10937/3 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged

### SEMOVOLATILE ORGANIC COMPOUNDS (GC-MS)

No difficulties were encountered during the semivolatiles analyses.

### GAS RANGE ORGANICS

No difficulties were encountered during the GRO analyses.

### GLYCOLS

Triethylene Glycol was detected in method blank MB 480-27399/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The continuing calibration verification (CCV) (CCV 480-27383/3) for Ethylene Glycol recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

### DISSOLVED GASES

The following samples submitted for dissolved gases analysis were received with incorrect preservation (pH >2): AW-2 (180-2644-2) and TC-1 (180-2644-1).

### 1,2-DIBROMOETHANE AND 1,2-DIBROMO-3-CHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY

No difficulties were encountered during the EDB and DBCP analyses.

### DIESEL RANGE ORGANICS

No difficulties were encountered during the DRO analyses.

### METALS

Antimony, Boron and Molybdenum were detected in method blank MB 180-10641/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Several analytes were detected in method blank MB 180-10417/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

**GENERAL CHEMISTRY**

The method blanks had compounds detected at a level that was above the method detection limit but below the reporting limit. The values should be considered an estimate, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-2644-1

SDG No.:

Instrument ID: HP6

Analysis Batch Number: 10092

Lab Sample ID: IC 180-10092/2

Client Sample ID:

Date Analyzed: 08/09/11 16:51

Lab File ID: 60809016.D

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.36	Peak Integrated Incorrectly	lipayj	08/09/11 17:10
Acetone	3.48	Peak Integrated Incorrectly	lipayj	08/09/11 17:11
Acetonitrile	3.94	Peak Integrated Incorrectly	lipayj	08/09/11 18:46

Lab Sample ID: IC 180-10092/3

Client Sample ID:

Date Analyzed: 08/09/11 17:15

Lab File ID: 60809017.D

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.92	Peak Integrated Incorrectly	lipayj	08/09/11 18:47

Lab Sample ID: ICIS 180-10092/4

Client Sample ID:

Date Analyzed: 08/09/11 17:39

Lab File ID: 60809018.D

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.91	Peak Integrated Incorrectly	lipayj	08/09/11 18:48

Lab Sample ID: IC 180-10092/5

Client Sample ID:

Date Analyzed: 08/09/11 18:03

Lab File ID: 60809019.D

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.91	Peak Integrated Incorrectly	lipayj	08/09/11 18:48

Lab Sample ID: IC 180-10092/6

Client Sample ID:

Date Analyzed: 08/09/11 18:27

Lab File ID: 60809020.D

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.90	Peak Integrated Incorrectly	lipayj	08/09/11 18:48

8260B

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: HP6 Analysis Batch Number: 10092Lab Sample ID: IC 180-10092/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/09/11 18:51 Lab File ID: 60809021.D GC Column: DB-624ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.90	Peak Integrated Incorrectly	lipayj	08/09/11 19:09

Lab Sample ID: IC 180-10092/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/09/11 19:15 Lab File ID: 60809022.D GC Column: DB-624ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.89	Peak Integrated Incorrectly	lipayj	08/09/11 19:32

8260B

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## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: HP6 Analysis Batch Number: 10937Lab Sample ID: CCVIS 180-10937/2 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/17/11 08:23 Lab File ID: 60817005.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.47	Peak Integrated Incorrectly	fergusond	08/17/11 08:48

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: 731 Analysis Batch Number: 9154Lab Sample ID: IC 180-9154/2 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/02/11 04:12 Lab File ID: V0802IC1.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.43	Peak Not Found	piccolino v	08/02/11 06:18
N-Nitrosodimethylamine	1.93	Poor Chromatography	piccolino v	08/02/11 06:18
Pyridine	2.00	Poor Chromatography	piccolino v	08/02/11 06:18
Benzoic acid	5.30	Poor Chromatography	piccolino v	08/02/11 06:18
Benzidine	9.03	Peak Not Found	piccolino v	08/02/11 06:19
Bis(2-ethylhexyl) phthalate	10.03	Poor Chromatography	piccolino v	08/02/11 06:19
7,12-Dimethylbenz(a)anthracene	11.02	Poor Chromatography	piccolino v	08/02/11 06:19
Benzo[k]fluoranthene	11.06	Poor Chromatography	piccolino v	08/02/11 06:19
Benzo[a]pyrene	11.40	Poor Chromatography	piccolino v	08/02/11 06:19
Indeno[1,2,3-cd]pyrene	12.86	Poor Chromatography	piccolino v	08/02/11 06:19
Dibenz(a,h)anthracene	12.87	Poor Chromatography	piccolino v	08/02/11 06:19
Benzo[g,h,i]perylene	13.29	Poor Chromatography	piccolino v	08/02/11 06:20

8270C LL

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: 731 Analysis Batch Number: 9154Lab Sample ID: IC 180-9154/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/02/11 04:34 Lab File ID: V0802IC2.DGC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	1.95	Poor Chromatography	piccolino v	08/02/11 06:20
Benzoic acid	5.31	Poor Chromatography	piccolino v	08/02/11 06:20
Benzidine	9.04	Poor Chromatography	piccolino v	08/02/11 06:20
Bis(2-ethylhexyl) phthalate	10.03	Poor Chromatography	piccolino v	08/02/11 06:21
Chrysene	10.09	Poor Chromatography	piccolino v	08/02/11 06:21
Di-n-octyl phthalate	10.57	Poor Chromatography	piccolino v	08/02/11 06:21
Benzo[k]fluoranthene	11.07	Poor Chromatography	piccolino v	08/02/11 06:21
Benzo[a]pyrene	11.41	Poor Chromatography	piccolino v	08/02/11 06:22
Indeno[1,2,3-cd]pyrene	12.88	Poor Chromatography	piccolino v	08/02/11 06:22
Dibenz(a,h)anthracene	12.90	Poor Chromatography	piccolino v	08/02/11 06:22
Benzo[g,h,i]perylene	13.31	Poor Chromatography	piccolino v	08/02/11 06:22

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: 731 Analysis Batch Number: 9154Lab Sample ID: ICIS 180-9154/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/02/11 04:56 Lab File ID: V0802IC3.DGC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.42	Poor Chromatography	piccolino v	08/02/11 06:22
Pyridine	1.94	Poor Chromatography	piccolino v	08/02/11 06:23
Benzoic acid	5.32	Poor Chromatography	piccolino v	08/02/11 06:23
Acenaphthene	6.89	Poor Chromatography	piccolino v	08/02/11 06:23
2,3,4,6-Tetrachlorophenol	7.12	Poor Chromatography	piccolino v	08/02/11 06:23
Pentachlorophenol	7.86	Poor Chromatography	piccolino v	08/02/11 06:24
Benzidine	9.04	Poor Chromatography	piccolino v	08/02/11 06:24
Di-n-octyl phthalate	10.57	Poor Chromatography	piccolino v	08/02/11 06:24
Benzo[b]fluoranthene	11.04	Poor Chromatography	piccolino v	08/02/11 06:24
Benzo[k]fluoranthene	11.07	Poor Chromatography	piccolino v	08/02/11 06:24
Benzo[a]pyrene	11.41	Poor Chromatography	piccolino v	08/02/11 06:24
Indeno[1,2,3-cd]pyrene	12.88	Poor Chromatography	piccolino v	08/02/11 06:25
Dibenz(a,h)anthracene	12.89	Poor Chromatography	piccolino v	08/02/11 06:25
Benzo[g,h,i]perylene	13.30	Poor Chromatography	piccolino v	08/02/11 06:25

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: 731 Analysis Batch Number: 9154Lab Sample ID: IC 180-9154/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/02/11 05:18 Lab File ID: V0802IC4.D GC Column: Rxi-5SilMSID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	1.93	Peak Not Found	piccolino v	08/02/11 06:25
Benzidine	9.03	Poor Chromatography	piccolino v	08/02/11 06:26
Dibenz(a,h)anthracene	12.89	Poor Chromatography	piccolino v	08/02/11 06:26
Benzo[g,h,i]perylene	13.30	Poor Chromatography	piccolino v	08/02/11 06:26

Lab Sample ID: IC 180-9154/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/02/11 05:41 Lab File ID: V0802IC5.D GC Column: Rxi-5SilMSID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.41	Poor Chromatography	piccolino v	08/02/11 06:26
Pyridine	1.92	Peak Not Found	piccolino v	08/02/11 06:27
Benzidine	9.03	Poor Chromatography	piccolino v	08/02/11 06:27
Benzo[k]fluoranthene	11.08	Poor Chromatography	piccolino v	08/02/11 06:28

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: 731Analysis Batch Number: 9154Lab Sample ID: IC 180-9154/7

Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/02/11 06:04Lab File ID: V0802IC6.DGC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	1.92	Peak Not Found	piccolino v	08/02/11 06:29
Benzoic acid	5.35	Peak Not Found	piccolino v	08/02/11 06:29
Caprolactam	5.84	Peak Not Found	piccolino v	08/02/11 06:30

Lab Sample ID: IC 180-9154/8

Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/02/11 06:27Lab File ID: V0802IC7.DGC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	5.86	Poor Chromatography	piccolino v	08/02/11 06:56
Atrazine	7.78	Poor Chromatography	piccolino v	08/02/11 06:57
Perylene-d12	11.48	Poor Chromatography	piccolino v	08/02/11 06:56

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: 731 Analysis Batch Number: 10588Lab Sample ID: CCVIS 180-10588/26 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/13/11 13:51 Lab File ID: V08130CC.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	1.85	Poor Chromatography	piccolino v	08/15/11 07:14

Lab Sample ID: LCS 180-9967/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 08/13/11 19:11 Lab File ID: V0813027.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Terphenyl-d14	9.16	Peak Not Found	piccolino v	08/15/11 07:44

8270C LL

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: 731 Analysis Batch Number: 13666Lab Sample ID: CCVIS 180-13666/2 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/13/11 13:51 Lab File ID: V08130CC.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	1.85	Poor Chromatography	piccolino v	08/15/11 07:14

Lab Sample ID: 180-2644-2 Client Sample ID: AW-2Date Analyzed: 08/14/11 00:50 Lab File ID: V0813033.D GC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	4.89	Peak Not Found	piccolino v	08/15/11 07:52
Naphthalene-d8	5.44	Peak Not Found	piccolino v	08/15/11 07:51
2-Fluorobiphenyl	6.27	Peak Not Found	piccolino v	08/15/11 07:52
Acenaphthene-d10	6.78	Peak Not Found	piccolino v	08/15/11 07:51

8270C LL

## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: GC12 Analysis Batch Number: 11137

Lab Sample ID: IC 180-10157/1-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/11 12:08 Lab File ID: W0810104.D GC Column: RxI-50 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	10.71	Poor Chromatography	derubeisj	08/17/11 14:28

Lab Sample ID: IC 180-10157/2-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/11 12:37 Lab File ID: W0810105.D GC Column: RxI-50 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	10.71	Poor Chromatography	derubeisj	08/17/11 14:29

Lab Sample ID: IC 180-10157/3-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/11 13:07 Lab File ID: W0810106.D GC Column: RxI-50 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	10.71	Poor Chromatography	derubeisj	08/17/11 14:29

Lab Sample ID: ICRT 180-10157/4-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/11 13:36 Lab File ID: W0810107.D GC Column: RxI-50 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	10.71	Poor Chromatography	derubeisj	08/17/11 14:26

Lab Sample ID: IC 180-10157/5-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/11 14:06 Lab File ID: W0810108.D GC Column: RxI-50 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane	6.75	Poor Chromatography	derubeisj	08/17/11 14:30
1,2-Dibromo-3-Chloropropane	10.71	Poor Chromatography	derubeisj	08/17/11 14:30

8011

## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: GC12 Analysis Batch Number: 11137Lab Sample ID: IC 180-10157/6-A Client Sample ID: \_\_\_\_\_Date Analyzed: 08/15/11 14:35 Lab File ID: W0810109.D GC Column: Rxi-50ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	10.72	Poor Chromatography	derubeisj	08/17/11 14:30

Lab Sample ID: ICV 180-10157/7-A Client Sample ID: \_\_\_\_\_Date Analyzed: 08/15/11 15:05 Lab File ID: W0810110.D GC Column: Rxi-50ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	10.72	Poor Chromatography	derubeisj	08/17/11 14:34

Lab Sample ID: CCV 180-10157/16-A Client Sample ID: \_\_\_\_\_Date Analyzed: 08/15/11 21:56 Lab File ID: W0810124.D GC Column: Rxi-50ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1,2-Tetrachloroethane	6.75	Poor Chromatography	derubeisj	08/17/11 14:35
1,2-Dibromo-3-Chloropropane	10.72	Poor Chromatography	derubeisj	08/17/11 14:36

8011

## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-2644-1

SDG No.:

Instrument ID: GC12

Analysis Batch Number: 11141

Lab Sample ID: IC 180-10624/1-A

Client Sample ID:

Date Analyzed: 08/15/11 11:38

Lab File ID: X0810104.D

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.78	Poor Chromatography	derubeisj	08/15/11 13:37
1,1,1,2-Tetrachloroethane	6.26	Poor Chromatography	derubeisj	08/15/11 13:37
1,2,3-Trichloropropane	7.78	Poor Chromatography	derubeisj	08/18/11 11:47
1,2-Dibromo-3-Chloropropane	9.98	Poor Chromatography	derubeisj	08/15/11 13:37

Lab Sample ID: IC 180-10624/2-A

Client Sample ID:

Date Analyzed: 08/15/11 12:08

Lab File ID: X0810105.D

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	08/15/11 13:38
1,1,1,2-Tetrachloroethane	6.26	Poor Chromatography	derubeisj	08/15/11 13:38
1,2,3-Trichloropropane	7.78	Poor Chromatography	derubeisj	08/18/11 11:48

Lab Sample ID: IC 180-10624/3-A

Client Sample ID:

Date Analyzed: 08/15/11 12:37

Lab File ID: X0810106.D

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	08/15/11 13:36
1,1,1,2-Tetrachloroethane	6.25	Poor Chromatography	derubeisj	08/15/11 13:36
1,2,3-Trichloropropane	7.78	Poor Chromatography	derubeisj	08/18/11 11:48

8011

## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: GC12

Analysis Batch Number: 11141

Lab Sample ID: ICRT 180-10624/4-A

Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/11 13:07

Lab File ID: X0810107.D

GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	08/15/11 13:34
1,1,1,2-Tetrachloroethane	6.25	Poor Chromatography	derubeisj	08/15/11 13:34
1,2,3-Trichloropropane	7.78	Poor Chromatography	derubeisj	08/18/11 11:49

Lab Sample ID: IC 180-10624/5-A

Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/11 13:36

Lab File ID: X0810108.D

GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	08/16/11 15:49
1,1,1,2-Tetrachloroethane	6.25	Poor Chromatography	derubeisj	08/16/11 15:49
1,2,3-Trichloropropane	7.78	Poor Chromatography	derubeisj	08/18/11 11:50

Lab Sample ID: IC 180-10624/6-A

Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/11 14:06

Lab File ID: X0810109.D

GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	08/16/11 15:49
1,1,1,2-Tetrachloroethane	6.25	Poor Chromatography	derubeisj	08/16/11 15:50
1,2,3-Trichloropropane	7.78	Poor Chromatography	derubeisj	08/18/11 11:51
1,2-Dibromo-3-Chloropropane	9.97	Poor Chromatography	derubeisj	08/16/11 15:50

Lab Sample ID: ICV 180-10624/7-A

Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/11 14:35

Lab File ID: X0810110.D

GC Column: RTX-1701 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	08/16/11 15:56
1,1,1,2-Tetrachloroethane	6.26	Poor Chromatography	derubeisj	08/16/11 15:56

8011

## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: GC12 Analysis Batch Number: 11141Lab Sample ID: CCV 180-10624/18-A Client Sample ID: \_\_\_\_\_Date Analyzed: 08/15/11 21:27 Lab File ID: X0810124.DGC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1, 2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	08/16/11 15:57
1, 1, 1, 2-Tetrachloroethane	6.25	Poor Chromatography	derubeisj	08/16/11 15:57

8011

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## GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: IC25 Analysis Batch Number: 9103

Lab Sample ID: IC 180-9103/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/26/11 19:00 Lab File ID: 0002.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.76	Baseline Event	waclaskil	07/27/11 09:12

Lab Sample ID: IC 180-9103/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/26/11 19:14 Lab File ID: 0003.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.75	Baseline Event	waclaskil	07/27/11 09:13

Lab Sample ID: IC 180-9103/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/26/11 19:28 Lab File ID: 0004.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.75	Baseline Event	waclaskil	07/27/11 09:13

Lab Sample ID: IC 180-9103/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/26/11 19:42 Lab File ID: 0005.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.76	Baseline Event	waclaskil	07/27/11 09:14

Lab Sample ID: IC 180-9103/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/26/11 19:56 Lab File ID: 0006.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.74	Baseline Event	waclaskil	07/27/11 09:14

300.0

## GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: IC25 Analysis Batch Number: 9103Lab Sample ID: IC 180-9103/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/26/11 20:10 Lab File ID: 0007.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	3.76	Baseline Event	waclaskil	07/27/11 09:09

300.0

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## GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: IC25

Analysis Batch Number: 9894

Lab Sample ID: ICV 180-9894/2

Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/05/11 09:41

Lab File ID: 0009.d

GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.71	Baseline Event	waclaskil	08/05/11 10:31
Chloride	3.62	Baseline Event	waclaskil	08/05/11 10:30
Bromide	4.84	Baseline Event	waclaskil	08/05/11 10:30

Lab Sample ID: CCV 180-9894/3

Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/05/11 09:55

Lab File ID: 0010.d

GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.72	Baseline Event	waclaskil	08/05/11 10:32
Chloride	3.62	Baseline Event	waclaskil	08/05/11 10:32
Bromide	4.85	Baseline Event	waclaskil	08/05/11 10:32

Lab Sample ID: LCS 180-9894/5

Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/05/11 10:23

Lab File ID: 0012.d

GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	3.62	Baseline Event	waclaskil	08/05/11 11:41

Lab Sample ID: MB 180-9894/6

Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/05/11 10:37

Lab File ID: 0013.d

GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	3.65	Baseline Event	waclaskil	08/05/11 11:43

300.0

## GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: IC25 Analysis Batch Number: 9894

Lab Sample ID: LCSD 180-9894/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/05/11 10:51 Lab File ID: 0014.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	3.61	Baseline Event	waclaskil	08/05/11 11:44

Lab Sample ID: CCV 180-9894/15 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/05/11 13:10 Lab File ID: 0022.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.73	Baseline Event	waclaskil	08/05/11 14:41
Chloride	3.63	Baseline Event	waclaskil	08/05/11 14:41
Bromide	4.85	Baseline Event	waclaskil	08/05/11 14:41

Lab Sample ID: CCV 180-9894/38 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/06/11 08:13 Lab File ID: 0045.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.72	Baseline Event	waclaskil	08/08/11 09:29
Chloride	3.62	Baseline Event	waclaskil	08/08/11 09:29
Bromide	4.86	Baseline Event	waclaskil	08/08/11 09:29

Lab Sample ID: LCS 180-9894/48 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/06/11 10:33 Lab File ID: 0055.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloride	3.63	Baseline Event	waclaskil	08/08/11 10:15

300.0

## GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: IC25 Analysis Batch Number: 9894Lab Sample ID: CCV 180-9894/50 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/06/11 11:00 Lab File ID: 0057.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.72	Baseline Event	waclaskil	08/06/11 11:20
Chloride	3.63	Baseline Event	waclaskil	08/06/11 11:20
Bromide	4.86	Baseline Event	waclaskil	08/06/11 11:20

Lab Sample ID: CCV 180-9894/61 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/06/11 14:22 Lab File ID: 0068.d GC Column: AS-14 ID: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	2.73	Baseline Event	waclaskil	08/08/11 09:31
Chloride	3.63	Baseline Event	waclaskil	08/08/11 09:31
Bromide	4.84	Baseline Event	waclaskil	08/08/11 09:31

300.0

## GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo

Job No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: PE-01 Analysis Batch Number: 1254

Lab Sample ID: STD1 480-1254/1 IC Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/09/10 13:46 Lab File ID: PE01GLY007.d GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.94	Baseline Smoothing	bescod	11/30/10 13:26

Lab Sample ID: STD2 480-1254/2 IC Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/09/10 13:58 Lab File ID: PE01GLY008.d GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.93	Baseline Smoothing	bescod	11/30/10 13:27

Lab Sample ID: STD3 480-1254/3 IC Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/09/10 14:11 Lab File ID: PE01GLY009.d GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.93	Baseline Smoothing	bescod	11/30/10 13:28

Lab Sample ID: STD4 480-1254/4 IC Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/09/10 14:24 Lab File ID: PE01GLY010.d GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.93	Shouldering	bescod	11/30/10 13:29

Lab Sample ID: STD5 480-1254/5 IC Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/09/10 14:36 Lab File ID: PE01GLY011.d GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.93	Shouldering	bescod	11/30/10 13:30

8015B

## GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica BuffaloJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: PE-01 Analysis Batch Number: 1254Lab Sample ID: STD6 480-1254/6 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 04/09/10 14:49 Lab File ID: PE01GLY012.d GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methoxyethanol	2.00	Baseline Smoothing	bescod	11/30/10 12:54
2-Ethoxyethanol	2.16	Baseline Smoothing	bescod	11/30/10 12:54
Propylene glycol	4.64	Baseline Smoothing	bescod	11/30/10 12:54
Ethylene glycol	4.90	Baseline Smoothing	bescod	11/30/10 12:54
1,4-Butanediol	6.99	Baseline Smoothing	bescod	11/30/10 12:54
2,2'-Oxybisethanol	7.34	Baseline Smoothing	bescod	11/30/10 12:54
Triethylene Glycol	8.94	Baseline Smoothing	bescod	11/30/10 12:54

8015B

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## GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica BuffaloJob No.: 180-2644-1

SDG No.: \_\_\_\_\_

Instrument ID: PE-01 Analysis Batch Number: 27383Lab Sample ID: CCV 480-27383/14 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/12/11 21:18 Lab File ID: PE06077.d GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene glycol	4.83	Peak Tail	WolfL	08/12/11 21:37

8015B

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## SAMPLE SUMMARY

Client: URS Corporation

Job Number: 180-2644-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
180-2644-1	TC-1	Water	08/04/2011 0930	08/05/2011 1000
180-2644-2	AW-2	Water	08/04/2011 1320	08/05/2011 1000

## EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 180-2644-1

Lab Sample ID Analyte	Client Sample ID Analyte	Result	Qualifier	Reporting Limit	Units	Method
180-2644-1	TC-1					
Butyl benzyl phthalate		0.17	J	1.2	ug/L	8270C LL
Di-n-butyl phthalate		0.87	J	1.2	ug/L	8270C LL
Triethylene Glycol		2.7	J B	10	mg/L	8015B
2,2'-Oxybisethanol		1.8	J	10	mg/L	8015B
Methane		18		1.0	ug/L	RSK-175
Aluminum		3.8	J	30	ug/L	6020
Arsenic		2.2		1.0	ug/L	6020
Barium		210		10	ug/L	6020
Boron		24	B	5.0	ug/L	6020
Calcium		22000		100	ug/L	6020
Cobalt		0.051	J	0.50	ug/L	6020
Chromium		1.3	J	2.0	ug/L	6020
Copper		1.1	J	2.0	ug/L	6020
Iron		1100		50	ug/L	6020
Potassium		880		100	ug/L	6020
Magnesium		4800		100	ug/L	6020
Manganese		190	B	0.50	ug/L	6020
Sodium		18000		100	ug/L	6020
Lead		0.11	J B	1.0	ug/L	6020
Molybdenum		0.49	J B	5.0	ug/L	6020
Antimony		0.019	J B	2.0	ug/L	6020
Selenium		0.76	J	5.0	ug/L	6020
Zinc		2.6	J B	5.0	ug/L	6020
Chloride		2.1		1.0	mg/L	300.0
Ammonia, distilled		0.15	B	0.10	mg/L	350.1
Alkalinity		120	B	5.0	mg/L	SM 2320B
Total Dissolved Solids		220		10	mg/L	SM 2540C
pH		7.35	HF	0.100	SU	SM 4500 H+ B
<i>Dissolved</i>						
Arsenic		0.77	J	1.0	ug/L	6020
Barium		210		10	ug/L	6020
Boron		25	B	5.0	ug/L	6020
Calcium		26000		100	ug/L	6020
Cobalt		0.089	J	0.50	ug/L	6020
Chromium		3.6		2.0	ug/L	6020
Copper		0.90	J	2.0	ug/L	6020
Iron		27	J	50	ug/L	6020
Potassium		1100		100	ug/L	6020
Magnesium		5200		100	ug/L	6020
Manganese		200		0.50	ug/L	6020
Sodium		19000		100	ug/L	6020
Nickel		0.51	J	1.0	ug/L	6020
Lead		0.14	J	1.0	ug/L	6020
Molybdenum		1.3	J B	5.0	ug/L	6020
Antimony		0.65	J B	2.0	ug/L	6020

## EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 180-2644-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Selenium		0.55	J	5.0	ug/L	6020
Thallium		0.025	J	1.0	ug/L	6020
Zinc		2.8	J	5.0	ug/L	6020

## EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 180-2644-1

Lab Sample ID	Client Sample ID		Result	Qualifier	Reporting Limit	Units	Method
Analyte							
180-2644-2	AW-2						
Di-n-butyl phthalate			0.46	J	1.0	ug/L	8270C LL
Diethyl phthalate			0.20	J	1.0	ug/L	8270C LL
GRO (C6-C10)			17	J	25	ug/L	8015B
2,2'-Oxybisethanol			0.58	J	10	mg/L	8015B
Aluminum			3.0	J	30	ug/L	6020
Arsenic			0.47	J	1.0	ug/L	6020
Barium			130		10	ug/L	6020
Boron			13	B	5.0	ug/L	6020
Calcium			27000		100	ug/L	6020
Cobalt			0.067	J	0.50	ug/L	6020
Chromium			2.0		2.0	ug/L	6020
Copper			0.64	J	2.0	ug/L	6020
Potassium			1500		100	ug/L	6020
Magnesium			7700		100	ug/L	6020
Manganese			0.42	JB	0.50	ug/L	6020
Sodium			7300		100	ug/L	6020
Lead			0.027	JB	1.0	ug/L	6020
Molybdenum			0.55	JB	5.0	ug/L	6020
Antimony			0.78	JB	2.0	ug/L	6020
Selenium			0.84	J	5.0	ug/L	6020
Zinc			4.2	JB	5.0	ug/L	6020
Chloride			21		1.0	mg/L	300.0
Ammonia, distilled			0.10	B	0.10	mg/L	350.1
Alkalinity			89	B	5.0	mg/L	SM 2320B
Total Dissolved Solids			280		10	mg/L	SM 2540C
pH			6.82	HF	0.100	SU	SM 4500 H+ B
<b><i>Dissolved</i></b>							
Barium			130		10	ug/L	6020
Boron			14	B	5.0	ug/L	6020
Calcium			31000		100	ug/L	6020
Cobalt			0.11	J	0.50	ug/L	6020
Chromium			4.3		2.0	ug/L	6020
Copper			0.77	J	2.0	ug/L	6020
Potassium			1800		100	ug/L	6020
Magnesium			8200		100	ug/L	6020
Manganese			0.45	J	0.50	ug/L	6020
Sodium			8100		100	ug/L	6020
Nickel			0.44	J	1.0	ug/L	6020
Lead			0.092	J	1.0	ug/L	6020
Molybdenum			0.56	JB	5.0	ug/L	6020
Antimony			0.23	JB	2.0	ug/L	6020
Thallium			0.021	J	1.0	ug/L	6020
Zinc			2.3	J	5.0	ug/L	6020

## METHOD SUMMARY

Client: URS Corporation

Job Number: 180-2644-1

Description	Lab Location	Method	Preparation Method
<b>Matrix Water</b>			
Volatile Organic Compounds (GC/MS) Purge and Trap	TAL PIT	SW846 8260B	SW846 5030B
Semivolatile Organic Compounds by GCMS - Low Levels Liquid-Liquid Extraction (Continuous)	TAL PIT	SW846 8270C LL	SW846 3520C
Semivolatile Organic Compounds by GCMS - Low Levels Liquid-Liquid Extraction (Continuous)	TAL PIT	SW846 8270C LL	SW846 3520C
EDB, DBCP, and 1,2,3-TCP (GC) Microextraction	TAL PIT	SW846 8011	SW846 8011
Metals (ICP/MS) Preparation, Total Recoverable or Dissolved Metals Sample Filtration	TAL PIT	SW846 6020	SW846 3005A Filtration
Metals (ICP/MS) Preparation, Total Metals	TAL PIT	SW846 6020	SW846 3010A
Mercury (CVAA) Preparation, Mercury	TAL PIT	SW846 7470A	SW846 7470A
Mercury (CVAA) Preparation, Mercury Sample Filtration, Field	TAL PIT	SW846 7470A	SW846 7470A FIELD_FLTRD
HEM and SGT-HEM HEM and SGT-HEM (SPE)	TAL PIT	1664A 1664A	1664A 1664A
Anions, Ion Chromatography	TAL PIT	MCAWW 300.0	
Nitrogen, Ammonia Distillation, Ammonia	TAL PIT	MCAWW 350.1	Distill/Ammonia
Acidity	TAL PIT	SM SM 2310B	
Alkalinity	TAL PIT	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL PIT	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL PIT	SM SM 2540D	
pH	TAL PIT	SM SM 4500 H+ B	
Methylene Blue Active Substances (MBAS)	TAL PIT	SM SM 5540C	
Gasoline Range Organics - (GC) Purge and Trap	TAL BUF	SW846 8015B	SW846 5030B
Glycols -Direct Injection (GC/FID) 8015 Direct Injection Prep (Aqueous)	TAL BUF	SW846 8015B	SW846 8015 Prep
Dissolved Gases (GC)	TAL BUF	RSK RSK-175	
Diesel Range Organics (DRO) (GC) Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF	SW846 8015B	SW846 3510C

**Lab References:**

TAL BUF = TestAmerica Buffalo

TAL PIT = TestAmerica Pittsburgh

## METHOD SUMMARY

Client: URS Corporation

Job Number: 180-2644-1

Description	Lab Location	Method	Preparation Method
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**Method References:**

1664A = EPA-821-98-002

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 180-2644-1

Method	Analyst	Analyst ID
SW846 8260B	Ferguson, Donald	DF
SW846 8270C LL	Piccolino, Vincent	VP
SW846 8015B	Michalek, Jason	JM
SW846 8015B	Wolf, Leah	LW
RSK RSK-175	Michalek, Jason	JM
SW846 8011	DeRubeis, James D	JDD
SW846 8015B	Dosier, Christina	CD
SW846 6020	Reinheimer, Bill	BR
SW846 7470A	Swanson, Jim	JS
1664A 1664A	McLaughlin, Jeremiah W	JWM
MCAWW 300.0	Waclaski, Linx	Iw
MCAWW 350.1	Kieda, Chuck	CK
SM SM 2310B	Johnson, Paul	PJ
SM SM 2320B	Loheyde, Cheryl	CL
SM SM 2540C	Kunkle, Sarah	SK
SM SM 2540D	Kunkle, Sarah	SK
SM SM 4500 H+ B	Bortot, Alexandra	AB
SM SM 5540C	Roffol, Sandy L	SLR

TestAmerica Pittsburgh

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CONFIDENTIAL

CABOT\_OIL 0097803

DIM0200589

DIM0200627

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	180-10937	Instrument ID:	HP6
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	60817013.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/17/2011 1224			Final Weight/Volume:	5 mL
Prep Date:	08/17/2011 1224				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	5.0	U	2.5	5.0
Benzene	1.0	U	0.11	1.0
Bromodichloromethane	1.0	U	0.13	1.0
Bromoform	1.0	U	0.19	1.0
Bromomethane	1.0	U	0.31	1.0
2-Butanone (MEK)	5.0	U	0.55	5.0
Carbon disulfide	1.0	U	0.21	1.0
Carbon tetrachloride	1.0	U	0.14	1.0
Chlorobenzene	1.0	U	0.14	1.0
Chloroethane	1.0	U	0.21	1.0
Chloroform	1.0	U	0.17	1.0
1,2-Dibromoethane (EDB)	1.0	U	0.18	1.0
1,2-Dichloroethene, Total	1.0	U	0.51	1.0
1,1-Dichloroethane	1.0	U	0.12	1.0
Bromochloromethane	1.0	U	0.18	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,1-Dichloroethene	1.0	U	0.30	1.0
trans-1,2-Dichloroethene	1.0	U	0.17	1.0
1,2-Dichloropropane	1.0	U	0.095	1.0
cis-1,3-Dichloropropene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.15	1.0
Ethylbenzene	1.0	U	0.23	1.0
2-Hexanone	5.0	U	0.16	5.0
Methylene Chloride	1.0	U	0.15	1.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.53	5.0
Styrene	1.0	U	0.097	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.29	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Trichloroethene	1.0	U	0.14	1.0
Vinyl chloride	1.0	U	0.23	1.0
Xylenes, Total	3.0	U	0.49	3.0
N-Propylbenzene	1.0	U	0.20	1.0
cis-1,2-Dichloroethene	1.0	U	0.24	1.0
Isopropylbenzene	1.0	U	0.16	1.0
1,3,5-Trimethylbenzene	1.0	U	0.22	1.0
Methyl tert-butyl ether	1.0	U	0.18	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,2-Dichlorobenzene	1.0	U	0.15	1.0
sec-Butylbenzene	1.0	U	0.28	1.0
1,3-Dichlorobenzene	1.0	U	0.11	1.0
p-Isopropyltoluene	1.0	U	0.18	1.0
1,4-Dichlorobenzene	1.0	U	0.21	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Date Sampled: 08/04/2011 0930

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	180-10937	Instrument ID:	HP6
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	60817013.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/17/2011 1224			Final Weight/Volume:	5 mL
Prep Date:	08/17/2011 1224				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloromethane	1.0	U	0.28	1.0
n-Butylbenzene	1.0	U	0.23	1.0
m-Xylene & p-Xylene	2.0	U	0.41	2.0
Naphthalene	1.0	U	0.078	1.0
o-Xylene	1.0	U	0.11	1.0
Dibromochloromethane	1.0	U	0.14	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	80		64 - 135
Toluene-d8 (Surr)	97		71 - 118
4-Bromofluorobenzene (Surr)	86		70 - 118
Dibromofluoromethane (Surr)	90		70 - 128

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Date Sampled: 08/04/2011 0930

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	180-10937	Instrument ID:	HP6
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	60817013.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/17/2011 1224			Final Weight/Volume:	5 mL
Prep Date:	08/17/2011 1224				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.11	1.0
Toluene	1.0	U	0.15	1.0
Ethylbenzene	1.0	U	0.23	1.0
Xylenes, Total	3.0	U	0.49	3.0
Isopropylbenzene	1.0	U	0.16	1.0
Methyl tert-butyl ether	1.0	U	0.18	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.22	1.0
Naphthalene	1.0	U	0.078	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Sum)	80		64 - 135
Toluene-d8 (Sur)	97		71 - 118
4-Bromofluorobenzene (Sur)	86		70 - 118
Dibromofluoromethane (Sur)	90		70 - 128

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Date Sampled: 08/04/2011 1320

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	180-10937	Instrument ID:	HP6
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	60817014.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/17/2011 1252			Final Weight/Volume:	5 mL
Prep Date:	08/17/2011 1252				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	5.0	U	2.5	5.0
Benzene	1.0	U	0.11	1.0
Bromodichloromethane	1.0	U	0.13	1.0
Bromoform	1.0	U	0.19	1.0
Bromomethane	1.0	U	0.31	1.0
2-Butanone (MEK)	5.0	U	0.55	5.0
Carbon disulfide	1.0	U	0.21	1.0
Carbon tetrachloride	1.0	U	0.14	1.0
Chlorobenzene	1.0	U	0.14	1.0
Chloroethane	1.0	U	0.21	1.0
Chloroform	1.0	U	0.17	1.0
1,2-Dibromoethane (EDB)	1.0	U	0.18	1.0
1,2-Dichloroethene, Total	1.0	U	0.51	1.0
1,1-Dichloroethane	1.0	U	0.12	1.0
Bromochloromethane	1.0	U	0.18	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,1-Dichloroethene	1.0	U	0.30	1.0
trans-1,2-Dichloroethene	1.0	U	0.17	1.0
1,2-Dichloropropane	1.0	U	0.095	1.0
cis-1,3-Dichloropropene	1.0	U	0.19	1.0
trans-1,3-Dichloropropene	1.0	U	0.15	1.0
Ethylbenzene	1.0	U	0.23	1.0
2-Hexanone	5.0	U	0.16	5.0
Methylene Chloride	1.0	U	0.15	1.0
4-Methyl-2-pentanone (MIBK)	5.0	U	0.53	5.0
Styrene	1.0	U	0.097	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.20	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.15	1.0
1,1,1-Trichloroethane	1.0	U	0.29	1.0
1,1,2-Trichloroethane	1.0	U	0.20	1.0
Trichloroethene	1.0	U	0.14	1.0
Vinyl chloride	1.0	U	0.23	1.0
Xylenes, Total	3.0	U	0.49	3.0
N-Propylbenzene	1.0	U	0.20	1.0
cis-1,2-Dichloroethene	1.0	U	0.24	1.0
Isopropylbenzene	1.0	U	0.16	1.0
1,3,5-Trimethylbenzene	1.0	U	0.22	1.0
Methyl tert-butyl ether	1.0	U	0.18	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,2-Dichlorobenzene	1.0	U	0.15	1.0
sec-Butylbenzene	1.0	U	0.28	1.0
1,3-Dichlorobenzene	1.0	U	0.11	1.0
p-Isopropyltoluene	1.0	U	0.18	1.0
1,4-Dichlorobenzene	1.0	U	0.21	1.0
1,2,4-Trichlorobenzene	1.0	U	0.27	1.0

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Date Sampled: 08/04/2011 1320

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	180-10937	Instrument ID:	HP6
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	60817014.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/17/2011 1252			Final Weight/Volume:	5 mL
Prep Date:	08/17/2011 1252				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloromethane	1.0	U	0.28	1.0
n-Butylbenzene	1.0	U	0.23	1.0
m-Xylene & p-Xylene	2.0	U	0.41	2.0
Naphthalene	1.0	U	0.078	1.0
o-Xylene	1.0	U	0.11	1.0
Dibromochloromethane	1.0	U	0.14	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surf)	77		64 - 135
Toluene-d8 (Surf)	98		71 - 118
4-Bromofluorobenzene (Surf)	88		70 - 118
Dibromofluoromethane (Surf)	90		70 - 128

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Date Sampled: 08/04/2011 1320

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	180-10937	Instrument ID:	HP6
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	60817014.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/17/2011 1252			Final Weight/Volume:	5 mL
Prep Date:	08/17/2011 1252				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.0	U	0.11	1.0
Toluene	1.0	U	0.15	1.0
Ethylbenzene	1.0	U	0.23	1.0
Xylenes, Total	3.0	U	0.49	3.0
Isopropylbenzene	1.0	U	0.16	1.0
Methyl tert-butyl ether	1.0	U	0.18	1.0
1,2,4-Trimethylbenzene	1.0	U	0.12	1.0
1,3,5-Trimethylbenzene	1.0	U	0.22	1.0
Naphthalene	1.0	U	0.078	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Sum)	77		64 - 135
Toluene-d8 (Sur)	98		71 - 118
4-Bromofluorobenzene (Sur)	88		70 - 118
Dibromofluoromethane (Sur)	90		70 - 128

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Date Sampled: 08/04/2011 0930

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Analysis Method:	8270C LL	Analysis Batch:	180-10588	Instrument ID:	731
Prep Method:	3520C	Prep Batch:	180-9967	Lab File ID:	V0813032.D
Dilution:	1.0			Initial Weight/Volume:	850 mL
Analysis Date:	08/14/2011 0027			Final Weight/Volume:	1.0 mL
Prep Date:	08/10/2011 0834			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	0.24	U	0.017	0.24
Acenaphthylene	0.24	U	0.018	0.24
Anthracene	0.24	U	0.18	0.24
Benzo[a]anthracene	0.24	U	0.017	0.24
Benzo[b]fluoranthene	0.24	U	0.018	0.24
Benzo[k]fluoranthene	0.24	U	0.064	0.24
Benzo[g,h,i]perylene	0.24	U	0.018	0.24
Benzo[a]pyrene	0.24	U	0.016	0.24
Bis(2-chloroethoxy)methane	1.2	U	0.068	1.2
Bis(2-chloroethyl)ether	0.24	U	0.030	0.24
Bis(2-ethylhexyl) phthalate	2.4	U	1.5	2.4
Butyl benzyl phthalate	0.17	J	0.17	1.2
Carbazole	0.24	U	0.019	0.24
Chrysene	0.24	U	0.016	0.24
2-Chloronaphthalene	0.24	U	0.018	0.24
2-Chlorophenol	1.2	U	0.19	1.2
2,4-Dichlorophenol	0.24	U	0.039	0.24
2,4-Dimethylphenol	1.2	U	0.10	1.2
2,4-Dinitrophenol	5.9	U	0.72	5.9
2,4-Dinitrotoluene	1.2	U	0.063	1.2
1,2-Dichlorobenzene	1.2	U	0.088	1.2
2-Methylnaphthalene	0.24	U	0.014	0.24
1,3-Dichlorobenzene	1.2	U	0.087	1.2
2-Methylphenol	1.2	U	0.10	1.2
1,4-Dichlorobenzene	1.2	U	0.088	1.2
2-Nitroaniline	5.9	U	0.41	5.9
2-Nitrophenol	1.2	U	0.20	1.2
bis (2-chloroisopropyl) ether	0.24	U	0.023	0.24
2,4,5-Trichlorophenol	1.2	U	0.18	1.2
2,4,6-Trichlorophenol	1.2	U	0.21	1.2
4-Nitroaniline	5.9	U	0.20	5.9
4-Nitrophenol	5.9	U	0.76	5.9
4-Chlorophenyl phenyl ether	1.2	U	0.059	1.2
Methylphenol, 3 & 4	1.2	U	0.11	1.2
4,6-Dinitro-2-methylphenol	5.9	U	0.26	5.9
4-Chloroaniline	1.2	U	0.10	1.2
4-Chloro-3-methylphenol	1.2	U	0.089	1.2
4-Bromophenyl phenyl ether	1.2	U	0.075	1.2
Dibenz(a,h)anthracene	0.24	U	0.018	0.24
Dibenzofuran	1.2	U	0.073	1.2
Di-n-butyl phthalate	0.87	J	0.15	1.2
Diethyl phthalate	1.2	U	0.17	1.2
Dimethyl phthalate	1.2	U	0.090	1.2
Di-n-octyl phthalate	1.2	U	0.24	1.2
3,3'-Dichlorobenzidine	1.2	U	0.13	1.2
3-Nitroaniline	5.9	U	0.38	5.9

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Date Sampled: 08/04/2011 0930

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Analysis Method:	8270C LL	Analysis Batch:	180-10588	Instrument ID:	731
Prep Method:	3520C	Prep Batch:	180-9967	Lab File ID:	V0813032.D
Dilution:	1.0			Initial Weight/Volume:	850 mL
Analysis Date:	08/14/2011 0027			Final Weight/Volume:	1.0 mL
Prep Date:	08/10/2011 0834			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Fluoranthene	0.24	U	0.019	0.24
1,2,4-Trichlorobenzene	1.2	U	0.084	1.2
Fluorene	0.24	U	0.025	0.24
Hexachlorobenzene	0.24	U	0.022	0.24
Hexachlorobutadiene	0.24	U	0.020	0.24
Hexachlorocyclopentadiene	1.2	U	0.061	1.2
Hexachloroethane	1.2	U	0.074	1.2
Indeno[1,2,3-cd]pyrene	0.24	U	0.023	0.24
Isophorone	1.2	U	0.076	1.2
Naphthalene	0.24	U	0.016	0.24
Nitrobenzene	2.4	U	0.099	2.4
N-Nitrosodiphenylamine	1.2	U	0.10	1.2
N-Nitrosodi-n-propylamine	0.24	U	0.036	0.24
Pyrene	0.24	U	0.018	0.24
Phenol	0.24	U	0.068	0.24
Phenanthrene	0.24	U	0.050	0.24
Pentachlorophenol	1.2	U	0.078	1.2
Benzyl alcohol	1.2	U	0.25	1.2
2,6-Dichlorophenol	1.2	U	0.24	1.2
Benzoic acid	5.9	U	0.66	5.9
1,2-Diphenylhydrazine(as Azobenzene)	1.2	U	0.078	1.2
1-Methylnaphthalene	0.24	U	0.016	0.24
2,6-Dinitrotoluene	1.2	U	0.094	1.2
N-Nitrosodimethylamine	1.2	U	0.086	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	55		16 - 122
2-Fluorobiphenyl	53		19 - 107
2-Fluorophenol	46		10 - 111
Nitrobenzene-d5	68		23 - 112
Phenol-d5	54		15 - 112
Terphenyl-d14	77		10 - 132

**Analytical Data**

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8270C LL Semivolatile Organic Compounds by GCMS - Low Levels**

Analysis Method:	8270C LL	Analysis Batch:	180-10588	Instrument ID:	731
Prep Method:	3520C	Prep Batch:	180-9967	Lab File ID:	V0813032.D
Dilution:	1.0			Initial Weight/Volume:	850 mL
Analysis Date:	08/14/2011 0027			Final Weight/Volume:	1.0 mL
Prep Date:	08/10/2011 0834			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Anthracene	0.24	U	0.18	0.24
Benzo[a]anthracene	0.24	U	0.017	0.24
Benzo[b]fluoranthene	0.24	U	0.018	0.24
Benzo[g,h,i]perylene	0.24	U	0.018	0.24
Benzo[a]pyrene	0.24	U	0.016	0.24
Chrysene	0.24	U	0.016	0.24
Fluorene	0.24	U	0.025	0.24
Indeno[1,2,3-cd]pyrene	0.24	U	0.023	0.24
Phenanthrene	0.24	U	0.050	0.24
Pyrene	0.24	U	0.018	0.24
Surrogate	%Rec	Qualifier	Acceptance Limits	
Terphenyl-d14	77		10 - 132	
Nitrobenzene-d5	68		23 - 112	
2-Fluorobiphenyl	53		19 - 107	

**Analytical Data**

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**8270C LL Semivolatile Organic Compounds by GCMS - Low Levels**

Analysis Method:	8270C LL	Analysis Batch:	180-13666	Instrument ID:	731
Prep Method:	3520C	Prep Batch:	180-9967	Lab File ID:	V0813033.D
Dilution:	1.0			Initial Weight/Volume:	990 mL
Analysis Date:	08/14/2011 0050			Final Weight/Volume:	1.0 mL
Prep Date:	08/10/2011 0834			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	0.20	U	0.015	0.20
Acenaphthylene	0.20	U	0.015	0.20
Anthracene	0.20	U	0.15	0.20
Benzo[a]anthracene	0.20	U	0.015	0.20
Benzo[b]fluoranthene	0.20	U	0.016	0.20
Benzo[k]fluoranthene	0.20	U	0.055	0.20
Benzo[g,h,i]perylene	0.20	U	0.015	0.20
Benzo[a]pyrene	0.20	U	0.014	0.20
Bis(2-chloroethoxy)methane	1.0	U	0.059	1.0
Bis(2-chloroethyl)ether	0.20	U	0.025	0.20
Bis(2-ethylhexyl) phthalate	2.0	U	1.3	2.0
Butyl benzyl phthalate	1.0	U	0.14	1.0
Carbazole	0.20	U	0.016	0.20
Chrysene	0.20	U	0.014	0.20
2-Choronaphthalene	0.20	U	0.015	0.20
2-Chlorophenol	1.0	U	0.17	1.0
2,4-Dichlorophenol	0.20	U	0.034	0.20
2,4-Dimethylphenol	1.0	U	0.086	1.0
2,4-Dinitrophenol	5.1	U	0.62	5.1
2,4-Dinitrotoluene	1.0	U	0.054	1.0
1,2-Dichlorobenzene	1.0	U	0.076	1.0
2-Methylnaphthalene	0.20	U	0.012	0.20
1,3-Dichlorobenzene	1.0	U	0.075	1.0
2-Methylphenol	1.0	U	0.087	1.0
1,4-Dichlorobenzene	1.0	U	0.075	1.0
2-Nitroaniline	5.1	U	0.36	5.1
2-Nitrophenol	1.0	U	0.17	1.0
bis (2-chloroisopropyl) ether	0.20	U	0.020	0.20
2,4,5-Trichlorophenol	1.0	U	0.15	1.0
2,4,6-Trichlorophenol	1.0	U	0.18	1.0
4-Nitroaniline	5.1	U	0.17	5.1
4-Nitrophenol	5.1	U	0.65	5.1
4-Chlorophenyl phenyl ether	1.0	U	0.051	1.0
Methylphenol, 3 & 4	1.0	U	0.091	1.0
4,6-Dinitro-2-methylphenol	5.1	U	0.22	5.1
4-Chloroaniline	1.0	U	0.089	1.0
4-Chloro-3-methylphenol	1.0	U	0.076	1.0
4-Bromophenyl phenyl ether	1.0	U	0.064	1.0
Dibenz(a,h)anthracene	0.20	U	0.016	0.20
Dibenzofuran	1.0	U	0.062	1.0
Di-n-butyl phthalate	0.46	J	0.13	1.0
Diethyl phthalate	0.20	J	0.15	1.0
Dimethyl phthalate	1.0	U	0.077	1.0
Di-n-octyl phthalate	1.0	U	0.21	1.0
3,3'-Dichlorobenzidine	1.0	U	0.11	1.0
3-Nitroaniline	5.1	U	0.32	5.1

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Date Sampled: 08/04/2011 1320

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Analysis Method:	8270C LL	Analysis Batch:	180-13666	Instrument ID:	731
Prep Method:	3520C	Prep Batch:	180-9967	Lab File ID:	V0813033.D
Dilution:	1.0			Initial Weight/Volume:	990 mL
Analysis Date:	08/14/2011 0050			Final Weight/Volume:	1.0 mL
Prep Date:	08/10/2011 0834			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Fluoranthene	0.20	U	0.016	0.20
1,2,4-Trichlorobenzene	1.0	U	0.072	1.0
Fluorene	0.20	U	0.022	0.20
Hexachlorobenzene	0.20	U	0.018	0.20
Hexachlorobutadiene	0.20	U	0.017	0.20
Hexachlorocyclopentadiene	1.0	U	0.052	1.0
Hexachloroethane	1.0	U	0.063	1.0
Indeno[1,2,3-cd]pyrene	0.20	U	0.020	0.20
Isophorone	1.0	U	0.065	1.0
Naphthalene	0.20	U	0.014	0.20
Nitrobenzene	2.0	U	0.085	2.0
N-Nitrosodiphenylamine	1.0	U	0.086	1.0
N-Nitrosodi-n-propylamine	0.20	U	0.031	0.20
Pyrene	0.20	U	0.016	0.20
Phenol	0.20	U	0.059	0.20
Phenanthrene	0.20	U	0.043	0.20
Pentachlorophenol	1.0	U	0.067	1.0
Benzyl alcohol	1.0	U	0.22	1.0
2,6-Dichlorophenol	1.0	U	0.20	1.0
Benzoic acid	5.1	U	0.57	5.1
1,2-Diphenylhydrazine(as Azobenzene)	1.0	U	0.067	1.0
1-Methylnaphthalene	0.20	U	0.014	0.20
2,6-Dinitrotoluene	1.0	U	0.081	1.0
N-Nitrosodimethylamine	1.0	U	0.074	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	70		16 - 122
2-Fluorobiphenyl	68		19 - 107
2-Fluorophenol	57		10 - 111
Nitrobenzene-d5	75		23 - 112
Phenol-d5	70		15 - 112
Terphenyl-d14	81		10 - 132

**Analytical Data**

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Date Sampled: 08/04/2011 1320

Client Matrix: Water

Date Received: 08/05/2011 1000

**8270C LL Semivolatile Organic Compounds by GCMS - Low Levels**

Analysis Method:	8270C LL	Analysis Batch:	180-13666	Instrument ID:	731
Prep Method:	3520C	Prep Batch:	180-9967	Lab File ID:	V0813033.D
Dilution:	1.0			Initial Weight/Volume:	990 mL
Analysis Date:	08/14/2011 0050			Final Weight/Volume:	1.0 mL
Prep Date:	08/10/2011 0834			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Anthracene	0.20	U	0.15	0.20
Benzo[a]anthracene	0.20	U	0.015	0.20
Benzo[b]fluoranthene	0.20	U	0.016	0.20
Benzo[g,h,i]perylene	0.20	U	0.015	0.20
Benzo[a]pyrene	0.20	U	0.014	0.20
Chrysene	0.20	U	0.014	0.20
Fluorene	0.20	U	0.022	0.20
Indeno[1,2,3-cd]pyrene	0.20	U	0.020	0.20
Phenanthrene	0.20	U	0.043	0.20
Pyrene	0.20	U	0.016	0.20
Surrogate	%Rec	Qualifier	Acceptance Limits	
Terphenyl-d14	81		10 - 132	
Nitrobenzene-d5	75		23 - 112	
2-Fluorobiphenyl	68		19 - 107	

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Date Sampled: 08/04/2011 0930

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	480-27055	Instrument ID:	HP5890-23
Prep Method:	5030B		N/A	Initial Weight/Volume:	44 mL
Dilution:	1.0			Final Weight/Volume:	44 mL
Analysis Date:	08/11/2011 0354			Injection Volume:	
Prep Date:	08/11/2011 0354			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
GRO (C6-C10)	25	U	4.2	25
Surrogate	%Rec	Qualifier	Acceptance Limits	

a,a,a-Trifluorotoluene

96

63 - 128

**Analytical Data**

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8015B Glycols -Direct Injection (GC/FID)**

Analysis Method:	8015B	Analysis Batch:	480-27383	Instrument ID:	PE-01
Prep Method:	8015 Prep	Prep Batch:	480-27399	Initial Weight/Volume:	.5 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	08/12/2011 1949			Injection Volume:	1 uL
Prep Date:	08/12/2011 1936			Result Type:	PRIMARY

Analyte	Result (mg/L)	Qualifier	MDL	RL
Ethylene glycol	10	U	0.76	10
Propylene glycol	10	U	0.76	10
Triethylene Glycol	2.7	J B	1.6	10
2,2'-Oxybisethanol	1.8	J	0.51	10
2-Methoxyethanol	10	U	0.76	10
2-Ethoxyethanol	10	U	0.94	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,4-Butanediol	108		66 - 130	

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

### 8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	480-27055	Instrument ID:	HP5890-23
Prep Method:	5030B		N/A	Initial Weight/Volume:	44 mL
Dilution:	1.0			Final Weight/Volume:	44 mL
Analysis Date:	08/11/2011 0429			Injection Volume:	
Prep Date:	08/11/2011 0429			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
GRO (C6-C10)	17	J	4.2	25
Surrogate a,a,a-Trifluorotoluene	%Rec	Qualifier	Acceptance Limits	
	96		63 - 128	

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Date Sampled: 08/04/2011 1320

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8015B Glycols -Direct Injection (GC/FID)

Analysis Method:	8015B	Analysis Batch:	480-27383	Instrument ID:	PE-01
Prep Method:	8015 Prep	Prep Batch:	480-27399	Initial Weight/Volume:	.5 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	08/12/2011 2002			Injection Volume:	1 uL
Prep Date:	08/12/2011 1936			Result Type:	PRIMARY

Analyte	Result (mg/L)	Qualifier	MDL	RL
Ethylene glycol	10	U	0.76	10
Propylene glycol	10	U	0.76	10
Triethylene Glycol	10	U	1.6	10
2,2'-Oxybisethanol	0.58	J	0.51	10
2-Methoxyethanol	10	U	0.76	10
2-Ethoxyethanol	10	U	0.94	10
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,4-Butanediol	102		66 - 130	

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

### RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-26879	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	1.0			Final Weight/Volume:	1.0 mL
Analysis Date:	08/10/2011 1621			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethane	1.5	U	0.49	1.5
Ethene	1.5	U	0.52	1.5
Methane	18		0.22	1.0
Propane	3.0	U	1.5	3.0

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

### RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-26879	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	1.0			Final Weight/Volume:	1.0 mL
Analysis Date:	08/10/2011 1635			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethane	1.5	U	0.49	1.5
Ethene	1.5	U	0.52	1.5
Methane	1.0	U	0.22	1.0
Propane	3.0	U	1.5	3.0

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

### 8011 EDB, DBCP, and 1,2,3-TCP (GC)

Analysis Method:	8011	Analysis Batch:	180-11141	Instrument ID:	GC12
Prep Method:	8011	Prep Batch:	180-10157	Initial Weight/Volume:	34.5 mL
Dilution:	1.0			Final Weight/Volume:	34.5 mL
Analysis Date:	08/15/2011 1505			Injection Volume:	1 uL
Prep Date:	08/10/2011 1126			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene Dibromide	0.020	U	0.0012	0.020
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,1,2-Tetrachloroethane	99		60 - 140	

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

### 8011 EDB, DBCP, and 1,2,3-TCP (GC)

Analysis Method:	8011	Analysis Batch:	180-11141	Instrument ID:	GC12
Prep Method:	8011	Prep Batch:	180-10157	Initial Weight/Volume:	35.3 mL
Dilution:	1.0			Final Weight/Volume:	35.3 mL
Analysis Date:	08/15/2011 1534			Injection Volume:	1 uL
Prep Date:	08/10/2011 1126			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene Dibromide	0.020	U	0.0012	0.020
Surrogate 1,1,1,2-Tetrachloroethane	%Rec 106	Qualifier	Acceptance Limits 60 - 140	

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Date Sampled: 08/04/2011 0930

Client Matrix: Water

Date Received: 08/05/2011 1000

### 8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	480-27105	Instrument ID:	HP5890-24
Prep Method:	3510C	Prep Batch:	480-27037	Initial Weight/Volume:	1025 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	08/12/2011 1420			Injection Volume:	1 uL
Prep Date:	08/10/2011 1816			Result Type:	PRIMARY

Analyte	Result (mg/L)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]	0.49	U	0.30	0.49
Surrogate o-Terphenyl	%Rec	Qualifier	Acceptance Limits	

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

### 8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	480-27105	Instrument ID:	HP5890-24
Prep Method:	3510C	Prep Batch:	480-27037	Initial Weight/Volume:	950 mL
Dilution:	1.0			Final Weight/Volume:	1 mL
Analysis Date:	08/12/2011 1453			Injection Volume:	1 uL
Prep Date:	08/10/2011 1816			Result Type:	PRIMARY

Analyte	Result (mg/L)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]	0.53	U	0.33	0.53
Surrogate	%Rec	Qualifier	Acceptance Limits	
o-Terphenyl	71		44 - 154	

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

### 6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	180-10963	Instrument ID:	X
Prep Method:	3010A	Prep Batch:	180-10417	Lab File ID:	X10816A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/16/2011 1459			Final Weight/Volume:	50 mL
Prep Date:	08/12/2011 0951				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	1.0	U	0.036	1.0
Aluminum	3.8	J	2.6	30
Arsenic	2.2		0.29	1.0
Barium	210		0.098	10
Boron	24	B	0.28	5.0
Beryllium	1.0	U	0.037	1.0
Calcium	22000		2.8	100
Cadmium	1.0	U	0.11	1.0
Cobalt	0.051	J	0.026	0.50
Chromium	1.3	J	0.54	2.0
Copper	1.1	J	0.24	2.0
Iron	1100		6.1	50
Potassium	880		5.8	100
Magnesium	4800		1.2	100
Manganese	190	B	0.039	0.50
Sodium	18000		3.8	100
Nickel	1.0	U	0.17	1.0
Lead	0.11	J B	0.019	1.0
Molybdenum	0.49	J B	0.22	5.0
Antimony	0.019	J B	0.019	2.0
Selenium	0.76	J	0.42	5.0
Thallium	1.0	U	0.015	1.0
Vanadium	1.0	U	0.082	1.0
Zinc	2.6	J B	0.96	5.0

### 6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-11743	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-10641	Lab File ID:	X10823A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/23/2011 2019			Final Weight/Volume:	50 mL
Prep Date:	08/15/2011 1131				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	1.0	U	0.036	1.0
Aluminum	30	U	2.6	30
Arsenic	0.77	J	0.29	1.0
Barium	210		0.098	10
Boron	25	B	0.28	5.0
Beryllium	1.0	U	0.037	1.0
Calcium	26000		2.8	100
Cadmium	1.0	U	0.11	1.0
Cobalt	0.089	J	0.026	0.50
Chromium	3.6		0.54	2.0
Copper	0.90	J	0.24	2.0

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: TC-1

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

### 6020 Metals (ICP/MS)-Dissolved

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	27	J	6.1	50
Potassium	1100		5.8	100
Magnesium	5200		1.2	100
Manganese	200		0.039	0.50
Sodium	19000		3.8	100
Nickel	0.51	J	0.17	1.0
Lead	0.14	J	0.019	1.0
Molybdenum	1.3	J B	0.22	5.0
Antimony	0.65	J B	0.019	2.0
Selenium	0.55	J	0.42	5.0
Thallium	0.025	J	0.015	1.0
Vanadium	1.0	U	0.082	1.0
Zinc	2.8	J	0.96	5.0

### 7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	180-11038	Instrument ID:	G
Prep Method:	7470A	Prep Batch:	180-10958	Lab File ID:	G10817B.PRN
Dilution:	1.0			Initial Weight/Volume:	50.0 mL
Analysis Date:	08/17/2011 1629			Final Weight/Volume:	50.0 mL
Prep Date:	08/17/2011 1138				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.038	0.20

### 7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	180-11038	Instrument ID:	G
Prep Method:	7470A	Prep Batch:	180-10958	Lab File ID:	G10817B.PRN
Dilution:	1.0			Initial Weight/Volume:	50.0 mL
Analysis Date:	08/17/2011 1631			Final Weight/Volume:	50.0 mL
Prep Date:	08/17/2011 1138				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.038	0.20

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

### 6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	180-10963	Instrument ID:	X
Prep Method:	3010A	Prep Batch:	180-10417	Lab File ID:	X10816A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/16/2011 1517			Final Weight/Volume:	50 mL
Prep Date:	08/12/2011 0951				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	1.0	U	0.036	1.0
Aluminum	3.0	J	2.6	30
Arsenic	0.47	J	0.29	1.0
Barium	130		0.098	10
Boron	13	B	0.28	5.0
Beryllium	1.0	U	0.037	1.0
Calcium	27000		2.8	100
Cadmium	1.0	U	0.11	1.0
Cobalt	0.067	J	0.026	0.50
Chromium	2.0		0.54	2.0
Copper	0.64	J	0.24	2.0
Iron	50	U	6.1	50
Potassium	1500		5.8	100
Magnesium	7700		1.2	100
Manganese	0.42	J B	0.039	0.50
Sodium	7300		3.8	100
Nickel	1.0	U	0.17	1.0
Lead	0.027	J B	0.019	1.0
Molybdenum	0.55	J B	0.22	5.0
Antimony	0.78	J B	0.019	2.0
Selenium	0.84	J	0.42	5.0
Thallium	1.0	U	0.015	1.0
Vanadium	1.0	U	0.082	1.0
Zinc	4.2	J B	0.96	5.0

### 6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	180-11743	Instrument ID:	X
Prep Method:	3005A	Prep Batch:	180-10641	Lab File ID:	X10823A.xml
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/23/2011 2023			Final Weight/Volume:	50 mL
Prep Date:	08/15/2011 1131				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	1.0	U	0.036	1.0
Aluminum	30	U	2.6	30
Arsenic	1.0	U	0.29	1.0
Barium	130		0.098	10
Boron	14	B	0.28	5.0
Beryllium	1.0	U	0.037	1.0
Calcium	31000		2.8	100
Cadmium	1.0	U	0.11	1.0
Cobalt	0.11	J	0.026	0.50
Chromium	4.3		0.54	2.0
Copper	0.77	J	0.24	2.0

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

### 6020 Metals (ICP/MS)-Dissolved

Analyte	Result (ug/L)	Qualifier	MDL	RL
Iron	50	U	6.1	50
Potassium	1800		5.8	100
Magnesium	8200		1.2	100
Manganese	0.45	J	0.039	0.50
Sodium	8100		3.8	100
Nickel	0.44	J	0.17	1.0
Lead	0.092	J	0.019	1.0
Molybdenum	0.56	J B	0.22	5.0
Antimony	0.23	J B	0.019	2.0
Selenium	5.0	U	0.42	5.0
Thallium	0.021	J	0.015	1.0
Vanadium	1.0	U	0.082	1.0
Zinc	2.3	J	0.96	5.0

### 7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	180-11038	Instrument ID:	G
Prep Method:	7470A	Prep Batch:	180-10958	Lab File ID:	G10817B.PRN
Dilution:	1.0			Initial Weight/Volume:	50.0 mL
Analysis Date:	08/17/2011 1633			Final Weight/Volume:	50.0 mL
Prep Date:	08/17/2011 1138				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.038	0.20

### 7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	180-11038	Instrument ID:	G
Prep Method:	7470A	Prep Batch:	180-10958	Lab File ID:	G10817B.PRN
Dilution:	1.0			Initial Weight/Volume:	50.0 mL
Analysis Date:	08/17/2011 1635			Final Weight/Volume:	50.0 mL
Prep Date:	08/17/2011 1138				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.038	0.20

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

### General Chemistry

Client Sample ID:	TC-1	Lab Sample ID:	180-2644-1	Date Sampled:	08/04/2011 0930		
Client Matrix:	Water			Date Received:	08/05/2011 1000		
Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM (Oil and Grease)	6.3	U	mg/L	1.9	6.3	1.0	1664A
	Analysis Batch: 180-10137		Analysis Date:	08/10/2011 1026			
	Prep Batch: 180-10043		Prep Date:	08/09/2011 1507			
Chloride	2.1		mg/L	0.20	1.0	1.0	300.0
	Analysis Batch: 180-9894		Analysis Date:	08/06/2011 1224			
Ammonia, distilled	0.15	B	mg/L	0.033	0.10	1.0	350.1
	Analysis Batch: 180-10679		Analysis Date:	08/15/2011 1237			
	Prep Batch: 180-10516		Prep Date:	08/13/2011 0913			
Acidity	5.0	U	mg/L	5.0	5.0	1.0	SM 2310B
	Analysis Batch: 180-9905		Analysis Date:	08/08/2011 1550			
Alkalinity	120	B	mg/L	0.41	5.0	1.0	SM 2320B
	Analysis Batch: 180-9937		Analysis Date:	08/08/2011 2057			
Total Dissolved Solids	220		mg/L	10	10	1.0	SM 2540C
	Analysis Batch: 180-9706		Analysis Date:	08/05/2011 1524			
Total Suspended Solids	4.0	U	mg/L	2.0	4.0	1.0	SM 2540D
	Analysis Batch: 180-9707		Analysis Date:	08/05/2011 1527			
pH	7.35	HF	SU	0.100	0.100	1.0	SM 4500 H+ B
	Analysis Batch: 180-9633		Analysis Date:	08/05/2011 1346			
Methylene Blue Active Substances	0.050	U	mg/L	0.013	0.050	1.0	SM 5540C
	Analysis Batch: 180-9731		Analysis Date:	08/06/2011 0925			

## Analytical Data

Client: URS Corporation

Job Number: 180-2644-1

### General Chemistry

Client Sample ID: AW-2

Lab Sample ID: 180-2644-2

Date Sampled: 08/04/2011 1320

Client Matrix: Water

Date Received: 08/05/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM (Oil and Grease)	4.8	U	mg/L	1.4	4.8	1.0	1664A
	Analysis Batch: 180-10137		Analysis Date:	08/10/2011 1026			
	Prep Batch: 180-10043		Prep Date:	08/09/2011 1507			
Chloride	21		mg/L	0.20	1.0	1.0	300.0
	Analysis Batch: 180-9894		Analysis Date:	08/06/2011 1238			
Ammonia, distilled	0.10	B	mg/L	0.033	0.10	1.0	350.1
	Analysis Batch: 180-10679		Analysis Date:	08/15/2011 1238			
	Prep Batch: 180-10516		Prep Date:	08/13/2011 0913			
Acidity	5.0	U	mg/L	5.0	5.0	1.0	SM 2310B
	Analysis Batch: 180-9905		Analysis Date:	08/08/2011 1550			
Alkalinity	89	B	mg/L	0.41	5.0	1.0	SM 2320B
	Analysis Batch: 180-9937		Analysis Date:	08/08/2011 2107			
Total Dissolved Solids	280		mg/L	10	10	1.0	SM 2540C
	Analysis Batch: 180-9706		Analysis Date:	08/05/2011 1524			
Total Suspended Solids	4.0	U	mg/L	2.0	4.0	1.0	SM 2540D
	Analysis Batch: 180-9707		Analysis Date:	08/05/2011 1527			
pH	6.82	HF	SU	0.100	0.100	1.0	SM 4500 H+ B
	Analysis Batch: 180-9633		Analysis Date:	08/05/2011 1347			
Methylene Blue Active Substances	0.050	U	mg/L	0.013	0.050	1.0	SM 5540C
	Analysis Batch: 180-9749		Analysis Date:	08/06/2011 1140			

**Quality Control Results**

Client: URS Corporation

Job Number: 180-2644-1

**Surrogate Recovery Report****8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
180-2644-1	TC-1	90	80	97	86
180-2644-2	AW-2	90	77	98	88
MB 180-10937/3		92	77	102	88
LCS 180-10937/4		86	69	97	86
LCSD 180-10937/5		89	69	98	85

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-128
DCA = 1,2-Dichloroethane-d4 (Surr)	64-135
TOL = Toluene-d8 (Surr)	71-118
BFB = 4-Bromofluorobenzene (Surr)	70-118

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CABOT\_OIL 0097832

**Quality Control Results**

Client: URS Corporation

Job Number: 180-2644-1

**Surrogate Recovery Report****8270C LL Semivolatile Organic Compounds by GCMS - Low Levels****Client Matrix: Water**

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
180-2644-1	TC-1	46	54	68	53	55	77
180-2644-2	AW-2	57	70	75	68	70	81
MB 180-9967/1-A		92	91	83	79	76	90
LCS 180-9967/2-A		70	70	67	65	78	76
LCSD 180-9967/3-A		69	68	67	66	81	74

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	10-111
PHL = Phenol-d5	15-112
NBZ = Nitrobenzene-d5	23-112
FBP = 2-Fluorobiphenyl	19-107
TBP = 2,4,6-Tribromophenol	16-122
TPH = Terphenyl-d14	10-132

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CABOT\_OIL 0097833

**Quality Control Results**

Client: URS Corporation

Job Number: 180-2644-1

**Surrogate Recovery Report****8011 EDB, DBCP, and 1,2,3-TCP (GC)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	TCEA2 %Rec	TCEA1 %Rec
180-2644-1	TC-1	99	
180-2644-1	TC-1		92
180-2644-2	AW-2	106	
180-2644-2	AW-2		97
MB 180-10157/8-A		98	
MB 180-10157/8-A			95
LCS 180-10157/9-A		100	
LCS 180-10157/9-A			97
LCSD		100	
180-10157/10-A			
LCSD			96
180-10157/10-A			

Surrogate	Acceptance Limits
TCEA = 1,1,1,2-Tetrachloroethane	60-140

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CABOT\_OIL 0097834

**Quality Control Results**

Client: URS Corporation

Job Number: 180-2644-1

**Surrogate Recovery Report****8015B Glycols -Direct Injection (GC/FID)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	14BD1 %Rec
180-2644-1	TC-1	108
180-2644-2	AW-2	102
MB 480-27399/1-A		99
LCS 480-27399/2-A		108
480-8430-Q-3-B MS		109
480-8430-Q-3-C MSD		112

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**Surrogate**  
14BD = 1,4-Butanediol

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**Acceptance Limits**  
66-130

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CABOT\_OIL 0097835

**Quality Control Results**

Client: URS Corporation

Job Number: 180-2644-1

**Surrogate Recovery Report****8015B Gasoline Range Organics - (GC)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	TFT2 %Rec
180-2644-1	TC-1	96
180-2644-2	AW-2	96
MB 480-27055/3		97
LCS 480-27055/4		113
LCSD 480-27055/5		113

**Surrogate**

TFT = a,a,a-Trifluorotoluene

**Acceptance Limits**

63-128

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CABOT\_OIL 0097836

**Quality Control Results**

Client: URS Corporation

Job Number: 180-2644-1

**Surrogate Recovery Report****8015B Diesel Range Organics (DRO) (GC)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	OTPH1 %Rec
180-2644-1	TC-1	77
180-2644-2	AW-2	71
MB 480-27037/1-A		75
LCS 480-27037/2-A		75
LCSD 480-27037/3-A		80

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**Surrogate**  
OTPH = o-Terphenyl

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**Acceptance Limits**  
44-154

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CABOT\_OIL 0097837